PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference K 50 135/3am	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No.	International filing date (day)	nonth/year) Priority date (day/month/year)				
PCT/EP2004/004480	28.04.2004	27.06.2003				
International Patent Classification (IPC) or nat	<u></u>					
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Applicant	•					
BIOMAY PRODUKTIONS-	UND HANDELS AG					
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This report is the international preli- under Article 35 and transmitted to the second contract of the second		blished by this International Preliminary Examining Authority				
	_	sheets, including this cover sheet.				
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3. This report is also accompanied by A	NNEXES, comprising:					
a (sent to the applicant and	l to the International Bureau) a t	otal of sheets, as follows:				
		hich have been amended and are the basis for this report and/or				
Instructions).	eculications authorized by this F	Authority (see Rule 70.16 and Section 607 of the Administrative				
		is Authority considers contain an amendment that goes beyond				
the disclosure in the Box.	e international application as fi	led, as indicated in item 4 of Box No. I and the Supplemental				
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b (sent to the International	Bureau only) a total of (indicate	type and number of electronic carrier(s))				
		, containing a sequence listing and/or tables				
related thereto, in compute Section 802 of the Adminis		ed in the Supplemental Box Relating to Sequence Listing (see				
4. This report contains indications relat	ing to the following items:					
Dan No. 1 Pagin of the						
Box No. I Basis of th	e report					
Box No. II Priority						
Box No. III Non-estable	ishment of opinion with regard t	o novelty, inventive step and industrial applicability				
Box No. IV Lack of un	ity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain do	cuments cited	•				
	fects in the international applicat	al application				
Box No. VIII Certain ob	servations on the international ap	pplication				
Date of submission of the demand	Date of	completion of this report				
Name and mailing address of the IPEA/EP	Authori	zed officer				
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Facsimile No.	Telepho	one No.				

Box	No. I	Basis of the report						
1.	_	gard to the language, this report is based on the internationed under this item.	al application in the language in which it was filed, unless	otherwise				
2.	With reg	his report is based on translations from the original language high is the language of a translation furnished for the purposition international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/original to the elements of the international application, this ray Office in response to an invitation under Article 14 are nort):	ses of: or 55.3) eport is based on (replacement sheets which have been fu					
:	th	ne international application as originally filed/furnished						
	th.	ne description:						
·	pa	ages <u>1-17</u>	as originally file	ed/furnished				
		ages*	received by this Authority on					
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		os. <u>1-19</u>						
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	a	sequence listing and/or any related table(s) - see Suppleme	•					
3.	Т	The amendments have resulted in the cancellation of:	•					
		the description, pages						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
4.	T th	This report has been established as if (some of) the amendate hey have been considered to go beyond the disclosure as fill the description, pages	ed, as indicated in the Supplemental Box (Rule 70.2(c)).	n made, since				
		¬						
	the claims, nos. the drawings, sheets/figs							
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*	If item 4	4 applies, some or all of those sheets may be marked "supe		(

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	ons whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially have not been examined in respect of:					
	the entire international application					
\boxtimes	claims Nos. 19					
becaus	e:					
\boxtimes	the said international application, or the said claims Nos. 19					
الخبـعا	relate to the following subject matter which does not require an international preliminary examination (specify):					
1						
	the description, claims or drawings (indicate particular elements below) or said claims Nos.					
	are so unclear that no meaningful opinion could be formed (specify):					
	•					
	•					
	the claims, or said claims Nos.					
	by the description that no meaningful opinion could be formed.					
	no international search report has been established for said claims Nos.					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form has not been furnished					
·	does not comply with the standard					
	the computer readable form has not been furnished					
	does not comply with the standard					
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
	See Supplemental Box for further details.					

Statement		
Novelty (N)	Claims 1-19	,
• • •	Claims	
Inventive step (IS)	7 70	
Inventive step (IS)	Claims 1-19 Claims	·····
	Claims	<u></u>
Industrial applicability (IA)	Claims 1-18	
·	Claims	
Citations and explanations (Rule	70.7)	
This report mak	es reference to the following documents:	
D1: CLARK	M A ET AL: "LECTIN-MEDIATED MUCOSAL	
DELI	EVERY OF DRUGS AND MICROPARTICLES"	
ADVA	ANCED DRUG DELIVERY REVIEWS, AMSTERDAM,	
NL,	vol. 43, no. 2/3, 30 September 2000	
(200	00-09-30), pages 207-223, XP009038338	
ISSN	N: 0169-409X	
D2: EP-A-	-1 356 826 (BIOMAY PROD & HANDEL)	
29 0	October 2003 (2003-10-29)	
D3: EP-A-	-0 738 890 (TOSOH CORP) 23 October 1996	
(199	96-10-23)	
D4: BROOF	KING J ET AL: "TRANSPORT OF NANOPARTICLES	
ACRO	OSS THE RAT NASAL MUCOSA" JOURNAL OF DRUG	
TARG	GETING, HARWOOD ACADEMIC PUBLISHERS GMBH,	
DE,	vol. 9, no. 4, 2001, pages 267-279,	
	09038336 ISSN: 1061-186X	
	A R K ET AL: "Determination of protein	
·	ding in biodegradable polymer microsphere	S
	taining tetanus toxoid" VACCINE,	_
	TERWORTH SCIENTIFIC. GUILDFORD, GB, vol.	
15,	nos. 6-7, 1 April 1997 (1997-04-01), es 672-678, XP004064530 ISSN: 0264-410X	

International application No.

PCT/EP2004/004480

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty:

Microspheres with a specific binding constant, as claimed in claim 1, are not clearly disclosed in the cited prior art. The subject matter of claim 1 is therefore novel. The same reasons apply *mutatis mutandis* to the subject matter of claims 18 and 19.

Inventive step:

D1 is considered to represent the closest prior art.

Neither D1 nor the other search report citations indicate that microspheres with a specific binding constant, as claimed in claim 1, enhance the efficacy of allergy treatment.

Certain published documents (Rule 70.10)								
	Application No. Patent No.				Publication date (day/month/year)		Filing date s/month/year)	Priority date (valid clai (day/month/year)
E	P-A-1 35	6	826		29.10.2003	22.	04.2002	
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	•	•						`.
	·							
Non-wr	ritten disclosures (Rul	e 70.9)				<u>.</u>	
Non-wr	ritten disclosures (Kind of non-y			e	Date of non-writter (day/month/)			te of written disclosure ng to non-written disclosure (day/month/year)
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International application No.
PCT/EP2004/004480

Box No. VIII	Certain	observations on	the international	application
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The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

"Substances which increase adhesiveness to mucosal cells" are not described in claim 3. Therefore, the subject matter of claim 3 is unclear.

International application No.

PCT/EP2004/004480

Supplemental Box

Continuation of:

In case the space in any of the preceding boxes is not sufficient.

Box III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 19 relates to a process for treatment of the human or animal body.

The PCT Contracting States do not have uniform criteria for assessing the industrial applicability of claim 19 in its present form. Patentability may also depend on the wording of the claims. The EPO, for example, does not recognize the industrial applicability of claims to the medical use of a compound; it may, however, allow claims to the first medical application of a known compound or to the use of such a compound in the manufacture of a drug for a new medical application.